☐ Field No. VIII

TREATY ON INTERNATIONAL COOPERATION IN THE AREA OF PATENTS

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT ON PATENTABILITY

(Chapter II of the Treaty on International Cooperation in the Area of Patents)

Applicant's or Agent's File Ref. 42 078.gi.nb	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International Application No. PCT/EP2004/008129	International Filing Date (Month/Day/Year) July 21, 2004	Priority Date (Month/Day/Year) July 30, 2003			
International Patent Classification (IPC) or National Classification and IPC B21B29/00, B21B31/18					
Applicant SMS DEMAG AKTIENGESELLSCHAFT et al.					

1.	This international preliminary examination report has been prepared by the duly commissioned International Preliminary Examining Authority according to Article 35 and is transmitted to the applicant according to Article 36.					
2.	This REPORT consists	of a total of 4 pages, including this cover sheet.				
З.	This report is also accompanied by ANNEXES; these comprise a. □ (sent to the applicant and the International Office) a total of pages; these are					
	pages conta Administrat pages that field, in the	e description, claims, and/or drawings which have been amended and are the basis for this report and/or aining rectifications that have been approved by this Authority (see Rule 70.16 and Section 607 of the ive Instructions). replace earlier pages but which, for the reasons given in field No. 1, item 4, and in the supplementary opinion of this Authority, contain a change that goes beyond the disclosed contents of the ill application in the version originally submitted.				
	contain a seque	International Office): (please specify the type and number of the electronic data carrier(s)), which nce listing and/or the tables that belong to it, only in computer-readable form, as specified in the field regarding the sequence listing (see Section 802 of the Administrative Instructions)				
4.	This report contains indic	ations relating to the following items:				
•	⊠ Field No. I □ Field No. II □ □	Basis of the report Priority				
	□ Field No. III□ Field No. IV	Nonestablishment of opinion with respect to novelty, inventive activity, and commercial viability. Lack of unity of the invention.				
٠	☑ Field No. V	Substantiated determination under Article 35(2) with respect to novelty, inventive activity, and commercial viability; documents and declarations in support of this determination.				
	☐ Field No. VI	Certain documents cited				
	Field No. VII	Certain defects in the international application				

Date of submission of the petition:	Date of completion of this report:	
November 18, 2004	July 5, 2005	
Name and mailing address of the office assigned to perform the preliminary examination: European Patent Office	Authorized Officer:	
D-80298 Munich Tel: +49 89 2399-0 Tx: 523656 epmu d	Forciniti, M.	
Fax: +49 89 2399-4465	Tel: +49 89 2399-7903	

Certain observations on the international application

INTERNATIONAL PRELIMINARY EXAMINATION REPORT ON PATENTABILITY International File No.: PCT/EP2004/008129

	Fie	eld No. I Basis	of the Report				
1.	With respect to the language , the report is based on the international application in the language in which it was submitted unless otherwise indicated under this item.						
_ ·			ort is based on a translation from the original language into the following language, which is uage of the translation, which was submitted for the following purpose:				
		□ international search (under Rules 12.3 and 23.1 b))					
		publication of th	blication of the international application (under Rule 12.4).				
		international pre	eliminary examination (under Rule 55.2 and/or Rule 55.3).				
2. With regard to the constituent parts* of the international application, the report is based on (replacement pages which were submitted to the application office in compliance with a requactording to Article 14 are considered "originally filed" in the context of this report and are no attached to the report):							
	Specification, pages:						
	1-20		as originally filed				
	CI	aims, Nos.:					
	1-11		as originally filed				
	Drawings, Pages:						
	1/10-10/10		as originally filed				
		□ a sequence listing and/or any accompanying tables – see supplementary field regarding the sequence listing.					
3.		The amendmen	ts have resulted in the cancellation of:				
	□ the description: pages						
		☐ the claims: N	Nos.				
		☐ the drawings	: sheets/figures:				
	☐ the sequence listing (exact details):						
	□ any tables belonging to the sequence listing (exact details):						

;4 .	below had n	This report has been prepared as if (some of) the amendments attached to this report and listed below had not been made, since for the reasons specified in the supplementary field they are considered by this Authority to go beyond the disclosure as originally filed (Rule 70.2 c)).						
	¹ □ the descr	☐ the description: pages						
	☐ the claim	☐ the claims: Nos.						
	□ the drawi	☐ the drawings: sheets/figures:						
	☐ the seque	□ the sequence listing (exact details):						
☐ any tables belonging to the sequence listing (exact details):								
		* If Item 4 applies, some or all of these pages can be furnished with the comment "replaced".						
		antiated determir nercial viability; d						
1.	Determination							
	Novelty (N)		Yes: No:	Claims Claims	1-11			
	Inventive Activity	y (Ai):	Yes: No:	Claims Claims	1-11			
	Commercial Viab	oility (CV):	Yes: No:	Claims Claims	1-11			
2.	Documents and I	Declarations (Rule	70.7):					
	See attached pag	ge.						

10/566312 IAP18 Rec'd PCT/PTO 27 JAN 2006

INTERNATIONAL PRELIMINARY
EXAMINATION REPORT ON
PATENTABILITY (ATTACHED PAGE)

International File No.: PCT/EP2004/008129

Re Item V.

1. The following document is cited in the present office action:

D1: DE 101 50 690 A (SMS DEMAG AG) April 30, 2003 (2003-04-30)

2. Document **D1** is regarded as the most closely related prior art.

This document discloses a rolling device of the general type in question.

2.1. The object of Claim 1 differs from D1 by its characterizing features and is thus novel

(Article 33 (2) PCT).

2.2. The problem to be solved with the present invention can be seen to be the creation of a

rolling mill with a small space requirement, as few parts to be changed as possible, and good

guidance of the rams of the bending and balancing devices, even in the case of large roll gap

heights.

2.3. This problem is solved in a way that is not obvious from the prior art by arranging the

axial shifting devices between the rolling stand and the work roll locking mechanism and by

arranging the bending devices between the work roll chocks and the backup roll chocks. The

solution proposed in Claim 1 of the present application is thus based on inventive activity

(Article 33(3) PCT).

3. Claims 2 to 11 are dependent on Claim 1 and thus also satisfy the requirements of the

PCT with respect to novelty and inventive activity (Article 33 (2)(3) PCT).

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A. The object of Claims 1 to 11 is unquestionably commercially viable (Article 33 (4)

PCT).